

ABSTRACT OF THE DISCLOSURE

[0097] Presented herein is a method and system for reducing the total memory required by an audio decoding device by providing audio decoder buffer optimization, memory overwriting capability during audio decoding, and ordered processing of audio decoder program operations. Memory may be reduced by applying the buffer overlaying method to reduce the amount of memory to perform audio decoding to a minimum amount of memory. Audio decoding devices implementing the memory reducing method may be provided with a minimum amount of memory, reducing the cost of the audio decoding devices while efficiently decoding audio signals.